Taller de espacios de Banach

Pedro Tradacete ICMAT

Strictly singular multiplication operators on L(X)

For a Banach space X, let L(X) denote the space of bounded linear operators from X to itself. For any pair of operators A,B in L(X) one can define the multiplication operator L_AR_B acting on L(X) as $L_AR_B(T)$ =ATB. The general aim is to study properties of L_AR_B in terms of those of A and B. In particular, Lindström, Saksman and Tylli have shown that when X=L_p the multiplication L_AR_B is strictly singular precisely when A and B are. The proof is however somehow long and tiresome. In this talk, we will see a factorization argument which could provide an alternative approach: if A and B are strictly singular on L_p then L_AR_B actually factors through the space compact operators on l_p . This is based on joint work with M. Mathieu (Belfast).

> Martes 9 de abril de 2019 16:00, seminario 222 Departamento de Análisis Matemático UCM

Organizado por el grupo de investigación Operadores, Retículos y Estructura de Espacios de Banach (MTM2016-76808)